

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A fixing device of an image forming apparatus comprising a heating roller according to a system in which a plurality of heating sources different in light-distribution characteristics are disposed internally, and the surface is divided in ~~region~~ regions in the lengthwise direction, ~~characterized in that~~ wherein:

as said plurality of heating sources, there are ~~disposed~~ provided at least, a heating source for mainly heating a heating roller surface in a first region through which paper of small width passes, and a heating source for mainly heating a heating roller surface in a second region through which paper of small width does not pass where paper of large width is carried;

there are ~~disposed~~ provided at least, a temperature detector for detecting a temperature of a heating roller surface in a region through which paper of small width passes, and a temperature detector for detecting a temperature of a heating roller surface in a region through which paper of small width does not pass where paper of large width is carried; and

as warming up operation is continued, temperatures of heating roller surfaces in both the first and the second regions are detected, and when a temperature detected by the temperature detector for detecting a temperature of a heating roller surface in either the first or the second region reaches a temperature capable of fixing, a ready display is lighted.

2. (Currently Amended) A fixing device of an image forming apparatus comprising a heating roller according to a system in which a plurality of heating sources different in light-distribution characteristics are disposed internally, and the surface is divided in ~~region~~ regions in the lengthwise direction, ~~characterized in that~~ wherein:

as said plurality of heating sources, there are ~~disposed~~ provided at least, a heating source for mainly heating a heating roller surface in a region through which paper of small width passes, and a heating source for mainly heating a heating roller surface in a first region through which paper of small width does not pass where paper of large width is carried;

there are ~~disposed~~ provided at least, a temperature detector for detecting a temperature of a heating roller surface in a second region through which paper of small width passes, and a temperature detector for detecting a temperature of a heating roller surface in a region through which paper of small width does not pass where paper of large width is carried; and

as warming up operation is continued, temperatures of heating roller surfaces in both the first and the second regions are detected, and when a temperature detected by the temperature detector for detecting a temperature of a heating roller surface in either the first or the second region reaches a temperature capable of fixing, a ready display is lighted, thereafter only a heating source for mainly heating a heating roller surface in a region not having reached a temperature capable of fixing is forcibly lighted till the fixed conditions are satisfied, and at the time of said forcible lighting operation, a heating source for mainly heating a heating roller surface in a region having reached a temperature capable of fixing is not lighted.

3. (Currently Amended) The fixing device of an image forming apparatus according to claim 2, wherein a temperature detector for detecting a using environmental temperature is ~~disposed~~ provided, and where a using environmental temperature detected by said temperature detector is in excess of the fixed temperature, warming up operation is continued, temperatures of heating roller surfaces in both the first and the second regions are detected, and when a temperature detected by a temperature detector for detecting a temperature of a heating roller surface in either the first or the second region reaches a temperature capable of fixing, a ready display is lighted, thereafter only a heating source for mainly heating a heating roller surface in a region not having reached a temperature capable of fixing is forcibly lighted till the fixed conditions are satisfied, and at the time of said forcible lighting operation, a heating source for mainly heating a heating roller surface in a region having reached a temperature capable of fixing is not lighted.

4. (Currently Amended) A control method of a fixing device in an image forming apparatus constituted by a heating roller according to a system in which a plurality of heating sources different in light-distribution characteristics are disposed internally, and the surface is divided in ~~region~~ regions in the lengthwise direction, the method comprising:

detecting at least, a temperature of a heating roller surface in a first region through which paper of small width passes, and a temperature of a heating roller surface in a second

region through which paper of small width does not pass where paper of large width is carried; and

continuing warming up operation, detecting temperatures of heating roller surfaces in both the first and the second regions, and when a temperature of a heating roller surface in said either region reaches a temperature capable of fixing, a ready display is lighted.

5. (Currently Amended) A control method of a fixing device in an image forming apparatus constituted by a heating roller according to a system in which a plurality of heating sources different in light-distribution characteristics are disposed internally, and the surface is divided in ~~region~~ regions in the lengthwise direction, the method comprising:

detecting at least, a temperature of a heating roller surface in a first region through which paper of small width passes, and a temperature of a heating roller surface in a second region through which paper of small width does not pass where paper of large width is carried; and

continuing warming up operation, detecting temperatures of heating roller surfaces in both the first and the second regions, and when a temperature of a heating roller surface in said either the first or second region reaches a temperature capable of fixing, a ready display is lighted, thereafter a heating roller surface in a region not having reached a temperature capable of fixing is heated by forcibly lighting a heating source till the fixed conditions are satisfied, and at the time of the forcible lighting operation, a heating roller surface in a region having reached a temperature capable of fixing is not heated.

6. (Currently Amended) The control method of a fixing device in an image forming apparatus according to claim 5, wherein where a using environmental temperature is in excess of a fixed temperature, the warming up operation is continued, temperatures of heating roller surfaces in both the first and the second regions are detected, and when a temperature of a heating roller surface in said either the first or the second region reaches a temperature capable fixing, a ready display is lighted, thereafter a heating roller surface in a region not having reached a temperature capable of fixing is heated by forcibly lighting a heating source till the fixed conditions are satisfied, and at the time of the forcible lighting operation, a heating roller surface in a region having reached a temperature capable of fixing is not heated.